

INTERNATIONAL SEARCH REPORT

Int. onal Application No

PCT/EP 02/03787

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F41A15/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 F41A

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 819 800 A (ORR) 9 September 1959 (1959-09-09)	1,2
Y	page 2, right-hand column, line 111 -page 4, left-hand column, line 14; figures 1,2	3
A	---	7-11
Y	FR 756 625 A (S.A. NOUVELLE DE CONSTRUCTIONS MÉCANIQUES DE LA LOIRE AUTOMOTO) 13 December 1933 (1933-12-13)	3
A	page 2, left-hand column, line 28 - line 36 page 2, left-hand column, line 47 -right-hand column, line 78; figures 1-3	1,2,10, 11
A	US 5 109 621 A (BLASER) 5 May 1992 (1992-05-05) column 5, line 28 - line 34; figures 5A,5B,6A,6B,6C	1,3,6, 9-11

	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

29 July 2002

Date of mailing of the international search report

05/08/2002

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 722 481 A (ETS. DAMON) 17 March 1932 (1932-03-17) the whole document	1-3, 10, 11
A	US 5 459 956 A (ROWLANDS ET AL.) 24 October 1995 (1995-10-24) column 3, line 64 -column 4, line 54; figures 1-5	1-3, 10, 11
A	GB 22513 A A.D. 1913 (BEESLEY) 1 January 1914 (1914-01-01)	

INTERNATIONAL SEARCH REPORT

Int'l Application No

PCT/EP 02/03787

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 819800	A	09-09-1959	NONE	
FR 756625	A	13-12-1933	NONE	
US 5109621	A	05-05-1992	DE 4000816 A1	18-07-1991
			DE 59008938 D1	24-05-1995
			EP 0437739 A2	24-07-1991
			FI 910154 A	14-07-1991
			JP 4288496 A	13-10-1992
FR 722481	A	17-03-1932	NONE	
US 5459956	A	24-10-1995	NONE	
GB N22513	A		NONE	

